

Age		Formation	Member	Symbol	Depositional Environment
Quaternary				Qa	Alluvial
				Qat	Alluvial terrace
				Qe	Eolian
				Ql	Lacustrine
				Qbcr	Debris-flow with boulders
				Qb	Basalt flow
				Qms	Mass-movement (landslide)
Tertiary				Ta	Alluvial fan
				Ti	Qtz monzonite (igneous)
Cret.	Lower	Dakota		Kd	Alluvial fan to marginal marine
Jurassic	Middle	Carmel	Winsor	Jcw	Not in Zion
			Paria River Crystal Creek	Jcp Jcx	Marginal marine, arid coastal
			Co-op Creek	Jcc	Open & restricted marine
		Temple Cap	White Throne	Jtw	Coastal dunes
			Sinawava	Jts	Warm shallow marine
	Lower	Navajo	white unit pink unit brown unit	Jnw Jnp Jnb	Coastal eolian dune fields (erg)
			Kayenta		Jk
		Moenave	Springdale Sst	Jms	Fluvial channel fill
			Whitmore P.t.	Jmw	Ponds & lakes
			Dinosaur Can.	Jmd	Fluvial, lake, flood plain
Triassic	Upper	Chinle	Petrified Forest	TRcp	Meandering stream, lake, coastal lowland
			Shinarump Cgl.	TRcs	Braided stream, valley-fill
	Lower	Moenkopi	upper red	TRmu	Tidal flat & coastal plain
			Shnabkaib	TRms	Restricted marine
			middle red	TRmm	Tidal flat & coastal plain
			Virgin Lst.	TRmv	Shallow marine
			lower red	TRml	Tidal flat & coastal plain
			Timpoweap	TRmt	Shallow marine
			Rock Can.Cgl.	TRmr	Fluvial channel fill & regolith
Permian	Lower	Kaibab	Harrisburg Fossil Mtn.	Pkh Pkf	Shallow marine, near-shore envs.
			Toroweap	Woods Ranch	Ptw
		Brady Canyon		Ptb	Marine

Figure 9. Depositional environments represented by the strata in Zion National Park.